

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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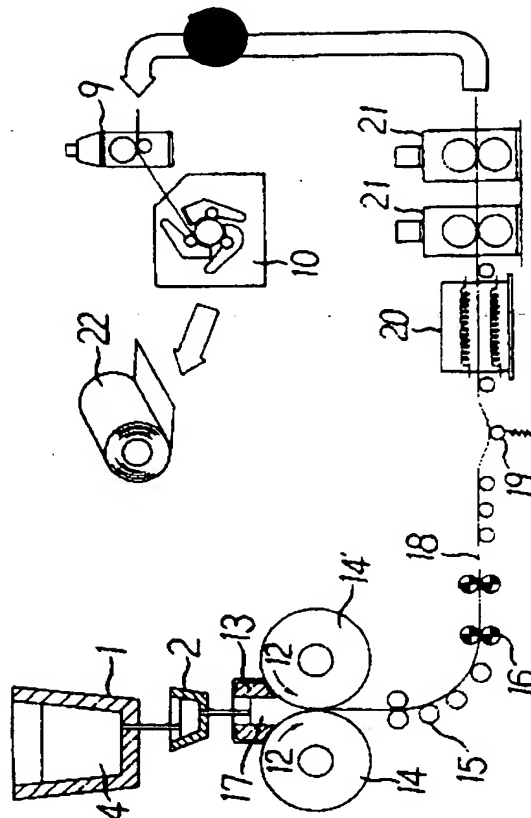
APPLICATION DATE : 25-02-80  
APPLICATION NUMBER : 55021611

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TITLE : CONTINUOUS MANUFACTURE OF  
THIN STEEL SHEET



ABSTRACT : PURPOSE: To omit the useless rolling work, and to save the installation cost and the energy consumption, by casting an ingot having about 10mm thickness through a continuous casting machine directly followed by the rolling line, and by subjecting this ingot to the directly following hot rolling pass for reducing thickness of the rolled sheet to about  $\leq 3$ mm.

CONSTITUTION: The molten steel 4 tapped from the steel manufacturing furnace is received by a ladle 1 and is continuously fed through a tundish 2 to the continuous casting machine directly followed by the rolling line. Hereupon, the molten steel 17 poured into the molten steel dam 13 contacts with the water-cooled casting rolls 14, 14' installed on both sides of the rolling line and is cooled to solidify; thus solidified steel is directly and continuously roll-drawn at a prescribed casting speed by the rotation of rolls 14, 14' into an ingot 18 in a prescribed breadth and a constant thickness (about 10mm). The ingot 18 is continuously fed through a speed regulating device 19 to the heating furnace 20 and the rolling mill 21 arranged on the manufacturing line, and is rolled to a thin steel sheet of prescribed thickness ( $\leq 3$ mm).

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